· PCT	Fo	or receiving Office	use only	
	International Applicat	ion No		
	international reprincati	1011 140.		
REQUEST	International Filing Da	ate		
The undersigned requests that the present				
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Off	fice and "PCT Inte	ernational Application"	
	Applicant's or agent's (if desired) (12 charact	file reference ers maximum) 32	220-75156	
Box No. I TITLE OF INVENTION CONJUGATES AND USE THEREOF			_	
Box No. II APPLICANT This person	n is also inventor		•	
Name and address: (Family name followed by given name; for a legal ention The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	ne address indicated in this	Telephone No. (765) 494-	2610	
PURDUE RESEARCH FOUNDATION		Facsimile No.	4077	
3000 Kent Avenue	•	(765) 496-	12//	
West Lafayette, IN 47906		Teleprinter No.		
US		Applicant's regis	stration No. with the Office	
State (that is, country) of nationality: US	State (that is, country)	of residence:		
This person is applicant for the purposes of:  all designated States all designated the United States	States except ates of America	the United States of America only	the States indicated in the Supplemental Box	
Box No. III FURTHER APPLICANT(S) AND/OR (FURTH	ER) INVENTOR(S)			
Name and address: (Family name followed by given name; for a legal enti- The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence LOW, Philip Stewart	e address indicated in this	This person is:	nt only	
5850 Farm Ridge Road		<b>X</b> applican	nt and inventor	
West Lafayette, IN 47906	•		r only (If this check-box is do not fill in below.)	
US		Applicant's registration No. with the Office		
		Applicant stegis	stration No. with the Office	
State (that is, country) of nationality:	State (that is, country) US	of residence:		
This person is applicant for the purposes of:  all designated the United States all designated the United States		the United States of America only	the States indicated in the Supplemental Box	
Further applicants and/or (further) inventors are indicated or	a continuation sheet.			
Box No. IV AGENT OR COMMON REPRESENTATIVE;	OR ADDRESS FOR	CORRESPOND	ENCE	
The person identified below is hereby/has been appointed to act or of the applicant(s) before the competent International Authorities a	behalf s:	agent	common representative	
Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of co	y, full official designation. untry.)	Telephone No. (317) 236-	1313	
ADDISON, Bradford G.		Facsimile No.	7.400	
BARNES & THORNBURG		(317) 231-7	7433	
11 South Meridian Street Indianapolis, IN 46204		Teleprinter No.		
US			``````````````````````````````````````	
		Agent's registration 41486	on No. with the Office	
Address for correspondence: Mark this check-box where n	o agent or common reprinted to the correspondence shapes	resentative is/has l	been appointed and the	

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)					
If none of the following sub-boxes is used, this sheet should no	t be included in the red	quest.			
Name and address: (Family name followed by given name; for a legal entitate address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of resident VARGHESE, Bindu  50 Bridgewater Court, Apt. 7  West Lafayette, IN 47906  US	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office				
State (that is, country) of nationality: US	State (that is, country)	of residence:			
This person is applicant all designated all designated for the purposes of:  States all designated the United States		the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity of the address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	e address indicated in this	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country)	of residence:			
This person is applicant all designated all designated for the purposes of:  States all designated the United States		the United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	e address indicated in this e is indicated below.)	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country)	of residence:			
This person is applicant for the purposes of:  all designated the United States  all designated the United States	States except tes of America	he United States the States indicated in the Supplemental Box			
Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence.	e address indicated in this e is indicated below.)	This person is:  applicant only  applicant and inventor  inventor only (If this check-box is marked, do not fill in below.)  Applicant's registration No. with the Office			
State (that is, country) of nationality:	State (that is, country)	of residence:			
This person is applicant all designated for the purposes of:  all designated the United States the United States	States except the sof America o	the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on	another continuation sh	neet.			

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Sheet	No	J

Box No. V DESIGNAT	TIONS	<u> </u>				
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.						
However,						
DE Germany is not d	esignated for any kind of nat	ional protection				
KR Republic of Kore	a is not designated for any k	ind of national protection				
RU Russian Federation	on is not designated for any k	cind of national protection				
the national law, of an earlie	be used to exclude (irrevocaber national application from we something these and certain other S	vhich priority is claimed. S	ned in order to avoid the See the Notes to Box No. \	ceasing of the effect, under Vas to the consequences of		
Box No. VI PRIORITY	CLAIM					
The priority of the following	g earlier application(s) is here	by claimed:				
Filing date	Number of action and instinction	V	Vhere earlier application	is:		
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office		
item (1) 06 May 2003 (06.05.04)	60/468.330	us				
item (2)						
item (3)			•			
Further priority claims	are indicated in the Suppleme	ental Box.	· · · · · · · · · · · · · · · · · · ·			
, -	ested to prepare and transmit t led with the Office which for t		<b>.</b> -			
all items ite	em (1)	item (3)	other, se	ee Supplemental Box		
	on is an ARIPO application, in Tember of the World Trade Or					
Box No. VII INTERNAT	TIONAL SEARCHING AUT	THORITY				
Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):						
ISA / .EP						
Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):						
Date (day/month/year)	Numb	er Count	ry (or regional Office)			
Box No. VIII DECLARATIONS						
	are contained in Boxes Nos. ate in the right column the num			Number of declarations		
Box No. VIII (i)	Declaration as to the identit	y of the inventor		:		
Box No. VIII (ii)	Box No. VIII (ii)  Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent:  1					
Box No. VIII (iii)	Declaration as to the appli date, to claim the priority	cant's entitlement, as at th	e international filing	; 1		
Box No. VIII (iv)  Declaration of inventorship (only for the purposes of the designation of the United States of America):						
Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:						

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT  The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.
Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51 bis. 1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:
PURDUE RESEARCH FOUNDATION is entitled to apply for and be granted a patent by virtue of the following:
an assignment from
LOW, Philip Stewart and VARGHESE, Bindu
to PURDUE RESEARCH FOUNDATION dated 10 June 2003 (10.06.03).
This declaration is made for the purposes of all designations, except the designation of the United States of America.
··
•
This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".

#### Box No. VIII (iii) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (iii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)):

In relation to this International Application:

PURDUE RESEARCH FOUNDATION is entitled to claim priority of earlier application

No. 60/468,330

by virtue of the following:

an assignment from

LOW, Philip Stewart and VARGHESE, Bindu to PURDUE RESEARCH FOUNDATION dated 10 June 2003 (10.06.03).

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No. VIII (iii)".

Box No. IX CHECK LIST; LA	ANGUAGE	OF FILIN	[G		
This international application conta (a) in paper form, the following no sheets:		item(s)	ernational application is accompanied by the following (mark the applicable check-boxes below and indicate in lumn the number of each item):	•	Number of items
request (including		· · · · ·	fee calculation sheet	:	: 1
declaration sheets) :	6	2. 🗆	original separate power of attorney	:	
description (excluding sequence listing and/or		3. 🔀	original general power of attorney	:	: 1
tables related thereto) :	17		copy of general power of attorney; reference number, if any:		. 2
claims :	1		statement explaining lack of signature	· · · · · · · · · · · · · · · · · · ·	·
abstract : drawings :	7		priority document(s) identified in Box No. VI as		
Sub-total number of sheets:	28	_	item(s):	,	
sequence listing :	20		translation of international application into (language):		
tables related thereto :			separate indications concerning deposited microorgan		
(for both, actual number of sheets if filed in paper form,			or other biological material	:	
whether or not also filed in computer readable form;			sequence listing in computer readable form (indicate type and number of carriers)		
see (c) below) –		(i)	copy submitted for the purposes of international se Rule 13ter only (and not as part of the international	arch under l application):	
Total number of sheets:  (b) only in computer readable	28 form	(ii)	(only where check-box (b)(i) or (c)(i) is marked in left additional copies including, where applicable, the purposes of international search under Rule 13ter	column)	
(Section 801(a)(i)) (i) ☐ sequence listing		(iii)	together with relevant statement as to the identity of	of the copy or	
<ul><li>(ii) ☐ tables related thereto</li><li>(c) ☐ also in computer readable</li></ul>	form		copies with the sequence listing mentioned in left of tables in computer readable form related to sequence listing and number of carriage.		
(Section 801(a)(ii))			(indicate type and number of carriers)  Copy submitted for the purposes of international se	arch under	
(i) sequence listing (ii) tables related thereto		(1)	Section 802(b-quater) only (and not as part of the inapplication)	nternational	
Type and number of carriers (d	liskette,	(ii)	$\square$ (only where check-box (b)(ii) or (c)(ii) is marked in le	ft column)	
CD-ROM, CD-R or other) on who contained the	nich are		additional copies including, where applicable, the purposes of international search under Section 802	copy for the (b-auater) :	
sequence listing:		(iii)	together with relevant statement as to the identity of		
tables related thereto:		11 751	copies with the tables mentioned in left column other (specify): .Transmittal Letter & Postal Card	:	2
(additional copies to be indicated items 9(ii) and/or 10(ii), in right		11. 🔀	other (specify): . ((40)) india( Fauct & 1.0) iat 94(4	• • • • • • • • • • • • • • • • • • • •	2
Figure of the drawings which should accompany the abstract:	3		ge of filing of the English (EN	)	
Box No. X SIGNATURE OF A	APPLICANT	, AGENT	OR COMMON REPRESENTATIVE capacity in which the person signs (if such capacity is not obvious	from reading the	romiest)
Rebecca L. BALL, Agent for	ecea	V	3all_		
		For re	ceiving Office use only		1
Date of actual receipt of the purinternational application:	ported			2. Drawing receive	
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the requestions under PCT Article 1	uired 1(2):			not rec	eived:
5. International Searching Authorit (if two or more are competent):	y ISA/		6. Transmittal of search copy delayed until search fee is paid		
		For Intern	national Bureau use only		
Date of receipt of the record copy by the International Bureau:					

# **PCT**

#### GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

The undersigned person(s):  (Family name followed by given name; for a full legal en name of country.)	ntity, full official designatio	n. The address must include postal code and
PURDUE RESEARCH FOUNDATION 3000 Kent Avenue West Lafayette, IN 47906 US		
•		•
		•
hereby appoint(s) the following person as:	x agent	common representative
Name and address (Family name followed by given name; for a legal entity, fu country.)	ll official designation. The	address must include postal code and name of
ADDISON, Bradford G.; COFFEY, William R.; STEIN, KULKARNI, Dilip A.; REZEK, Richard A.; HUNT, Paul HENDERSON, Ronald S.; SWEENEY, James R., II; HSTEWART, Carli E.; GEIB, Helen; MCLAREN, Kevin LLAZARUS, Richard B.; GILLENWATER, Bobby B.; COPETERS, Grant H.; HAMILL, Mark A.; ALLEN, Michael MCWILLIAMS, Dennis; SWEENEY, James R.; LEE, VJeffrey R. all of the law firm: BARNES & THORNBUILD	B.; MICHAEL, Jeffrey A.; HAIGH, Christopher E.; BALL.; PALAN, Perry; NEWM, DOPER, Gregory S.; DONEL B.; ALBERS, Dan P.; DEVILIAM M., Jr.; OHLSON, CRG, 11 South Meridian St	BAUER, Shawn D.; POWLICK, Jill T.; AILEY, Kevin D.; BALL, Rebecca; AN, Mark M.; KRINSKY, Richard P.; NOVAN, Thomas J.; MARTIN, Alice O.; EVADAS, Sendil; SMITH, Thomas E.; Glenn W.; BREZINA, David C.; GRAY, reet, Indianapolis, IN 46204, US
to represent the undersigned before	all the competent Inte	rnational Authorities
	the International Sear	ching Authority only
	the International Preli	minary Examining Authority only
in connection with any and all international applications file	ed by the undersigned with t	he following Office
US		as receiving Office
and to make or receive payments on behalf of the undersign	ied.	
Signature(s) (where there are several persons, each of the signing and the capacity in which the person signs, if such contains the significant contains and the capacity in which the person signs, if such contains the significant contains the sig	nem must sign; next to each capacity is not obvious from	signature, indicate the name of the person reading this power):
Bruce L. Pershing Investment Officer and Corporate Secretary  Date: April 16, 2004		

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(PCT Rule 90.5)

		<del></del>				<del></del>	
The undersigned person(s):  (Family name followed by given name; for a legal entity, )	full offici	al designati	on. The ada	Iress must i	nclude posta	el code and n	ame of country
				•			•
LOW, Philip Stewart 5850 Farm Ridge Road Wast Lafavette DL 47006			•	• .			
West Lafayette, IN 47906 US	1						-
•		•	•				
•	<del></del>	_		·			
hereby appoint(s) the following person as:	XX	agent		CC	ommon repre	sentative	
Name and address (Family name followed by given name; for a legal entity, fi	ull officia	l designatic	on. The addi	ess must ir	ıclude postal	code and ne	ame of country
LAMMERT, Steven R., Reg. No. 27653; CONARD, Richard Arland T., Reg. No. 25062; HARRISON, Nancy J., Reg. No. 30796; QUICK, David B., Reg. No. 31993; HUNT, Paul E Bradford G., Reg. No. 41486; BAUER, Shawn D., Reg. No. 48669; SWEENEY, James R. II, Reg. No. 45670; DuBC BAILEY, Kevin D., Reg. No. 46531; BALL, Rebecca, Reg. Reg. No. 51058; GEIB, Helen, Reg. No. 50924; PALAN, Polichard B.; Reg. No. 48215; KRINSKY, Richard P., Reg. No. Reg. No. 40965; DONOVAN, Thomas J., Reg. No. 33231; MAMILL, Mark A., Reg. No. 37145; ALLEN, Michael B., Ragents of the Address: BARNES & THORNBURG, 11 South I	. 27083; ] 3., Reg. N 41603; PO DIS, Dusti No. 46535 erry, Reg. 47720; GI MARTIN, Reg. No. 3	KULKARN No. 37154; [ OWLICK, Jil in S., Reg. [ 5; HUGHES . No. 26213; ILLENWAT Alice O., R 37582; and	I, Dilip A., R MICHAEL, Il T., Reg. No. 46233; S, Dewayne A ; NEWMAN ER, Bobby I Reg. No. 356 ALBERS, D	Reg. No. 2' Jeffrey A., o. 42088; I HAIGH, C A., Reg. No I, Mark M., B., Reg. No 501; PETE	7510; REZEK , Reg. No. 3' HENDERSON Christopher E., o. 46783; STE , Reg. No. 31 o. 31105; COC RS, Grant H.,	K, Richard A. 7394; ADDIS N, Ronald S., , Reg. No. 46 EWART, Car 1472; LAZA OPER, Gregor , Reg. No. 35	, No. ISON, , Reg. 6377; rli E., LRUS, ory S., 5977;
to represent the undersigned before	XX	all the co	ompetent In	ternationa	l Authorities	3	
		the Intern	national Sea	arching A	uthority only	/	
-		the Intern	national Pre	liminary l	Examining A	Authority or	ıly
in connection with any and all international applications	filed by	the unders	igned with	the follow	ing Office		
US		•				as rec	ceiving Office
and to make or receive payments on behalf of the unders	signed.			-			
Signature(s) (where there are several persons, each of them must sign signs, if such capacity is not obvious from reading this		ach signature,	indicate the na	ane of the per	son signing and	the capacity in	ı which the person
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() Lilio X Foy			Date:	9	5_	2002	
Philip Stewart LOW				Day/	Month/	Year	
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### GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)

(PCT Rule 90.5)

		·	
The undersigned person(s):  (Family name followed by given name; for a legal ent	tity, full official designation	The address must include postal code and r	name of country.,
VARGHESE, Bindu 50 Bridgewater Court, Ap West Lafayette, IN 4790 US	•		
		•	
hereby appoint(s) the following person as:	XX agent	common representative	
Name and address  (Family name followed by given name; for a legal entity DDISON, Bradford G., Reg. No. 41486; COFFEY, Willichard D., Reg. No. 27321; KULKARNI, Dilip A., Reg. 17154; MICHAEL, Jeffrey A., Reg. No. 37394; BAUER WEENEY II, James R., Reg. No. 45670; BAILEY, Kevin Reg. No. 51058; GEIB, Helen, Reg. No. 50924; MCLARE Mark M., Reg. No. 31472; KRINSKY, Richard P., Reg. No. Reg. No. 31105; COOPER, Gregory S., Reg. No. 40965; DOI ETERS, Grant H., Reg. No. 35977; HAMILL, Mark A., Reg. 44008; DEVADAS, Sendil, Reg. No. 52425; SMITH, Thy William M., Jr., Reg. No. 26935; All Appointed Agents and anapolis, IN 46204, US	No. 27510; REZEK, Richard L, Shawn D., Reg. No. 4160 D., Reg. No. 46531; BALL, EN, Kevin L., Reg. No. 4833 47720; LAZARUS, Richard ONOVAN, Thomas J., Reg. 2 g. No. 37145; ALLEN, Mich homas E., Reg. No. 18243; M	A., Reg. No. 30796; HUNT, Paul B., Reg. 3; HENDERSON, Ronald S., Reg. No. 43 Rebecca, Reg. No. 46535; STEWART, Carl 11; PALAN, Perry, Reg. No. 26213; NEWM B., Reg. No. 48215; GILLENWATER, Bobby No. 33231; MARTIN, Alice O., Reg. No. 350 ael B., Reg. No. 37582; ALBERS, Daniel P., ICWILLIAMS, Dennis M., Reg. No. 25195; I	No. 669; i E., AN, / B., 601; Reg. JEE,
to represent the undersigned before	all the com	petent International Authorities	
	the Internat	ional Searching Authority only	
	the Internati	ional Preliminary Examining Authority or	nly
in connection with any and all international application	ons filed by the undersign	ed with the following Office	
	JS	as rec	ceiving Office
and to make or receive payments on behalf of the unc	dersigned.		·
Signature(s) (where there are several persons, each of them must signs, if such capacity is not obvious from reading	t sign; next to each signature, indi g this power);	icate the name of the person signing and the capacity is	n which the person
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indu VARGHESE	•	Day/ Month/ Year	
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